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PTO/SB08a (08-03)

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U.S. Patent and Trademark Office; U.S. Department of Commerce

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	Not assigned 10/524,646
Filing Date	Herewith 09/02/2005
First Named Inventor	Walter Fix
Group Art Unit	Not assigned 2835
Examiner Name	Not assigned A. Vortman
Attorney Docket Number	411000-127

Sheet	1	Of	12
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U.S. PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Document Number Number-Kid Code ² (if known)	Publication-Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/AV/	1	US-5,574,291	11/12/1996	Dodabalapur et al.	See Disclosure Statement filed herewith for all references cited
	2	US-5,206,525	04/27/1993	Yamamoto et al.	
	3	US-4,937,119	06/26/1990	Nickles et al.	
	4	US-5,625,199	04/29/1997	Baumbach et al.	
	5	US-5,705,826	01/06/1998	Aratani et al.	
	6	US-5,854,139	12/29/1998	Kondo et al.	
	7	US-5,883,397	03/16/1999	Isoda et al.	
	8	US-5,998,805	12/07/1999	Shi et al.	
	9	US-6,045,977	04/04/2000	Chandross et al.	
	10	US-6,072,716	06/06/2000	Jacobsen et al.	
	11	US-6,197,663	03/06/2001	Chandross et al.	
	12	US-6,384,804	05/07/2002	Dodabalapur et al.	
	13	US-6,555,840	04/29/2003	Hudson et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No. ¹	Foreign Patent Document Country Code ³ Number* Kind Code ⁵ (if known)	Publication-Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
/AV/	14	EP 0460242	12/11/1991			X
	15	WO 93 16491	08/19/1993			X
	16	WO 99 40631	08/12/1999			X
	17	WO 99 54936	10/28/1999			X
	18	WO 96 02924	02/01/1996			X
	19	WO 95 31831 title page only	11/23/1995	Philips Electronics		X

Examiner Signature	/Anatoly Vortman/	Date Considered	03/03/2008
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First Named Inventor	Walter Fix
Group Art Unit	Not assigned 2835
Examiner Name	Not assigned A. Vortman
Attorney Docket Number	411000-127

Sheet 2 12

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	20	US-6,221,553	04/24/2001	Wolk et al.	
	21	US-6,150,668	11/21/2000	Bao et al.	
	22	US-6,362,509	03/26/2002	Hart	
	23	US-6,329,226	12/11/2001	Jones et al.	
	24	US-6,593,690	07/15/2003	McCormick et al.	
	25	US-6,498,114	12/24/2002	Amundson et al.	
	26	US-6,603,139	08/05/2003	Tessler et al.	
	27	US-6,621,098	09/16/2003	Jackson et al.	
	28	US-4,340,657	07/20/1982	Rowe	
	29	US-5,364,735	11/15/1994	Akamatsu et al.	
	30	US-6,330,464	12/11/2001	Colvin et al.	
	31	US-5,691,089	11/25/1997	Smayling	
	32	US-6,321,571	11/27/2001	Thermon et al.	

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	33	WO 99 30432	06/17/1999			X
	34	EP 0 108650	05/16/1984			X
	35	EP 0 418504	03/27/1991			X
	36	DE 199 54703	05/04/00			
	37	WO 98 18186 title page only	04/30/1998			X
	38	DE 10033112 title page only	01/24/2002	Siemens AG		X

Examiner Signature	/Anatoly Vortman/	Date Considered	03/03/2008
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	Not assigned 10/524,646	
		Filing Date	Herewith 09/02/05	
		First Named Inventor	Walter Fix	
		Group Art Unit	Not assigned 2835	
		Examiner Name	Not assigned A. Vortman	
Sheet	3	12	Attorney Docket Number	411000-127

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	39	US-6,087,196	07/11/2000	Sturm et al.	
	40	US-6,133,835	10/17/2000	De Leeuw et al.	
	41	US-5,970,318	10/19/1999	Choi et al.	
	42	US-5,321,240	06/14/1994	Takahira	
	43	US-5,973,598	10/26/1999	Beigel	
	44	US-5,347,144	09/13/1994	Garnier et al.	
	45	US-6,207,472	03/27/2001	Calligari et al.	
	46	US-5,486,851	01/23/1996	Gehner et al.	
	47	US-2002/0053320	05/09/2002	Duthaler	
	48	US-2004/0084670	05/06/2004	Tripas et al.	
	49	US-6,251,513	06/26/2001	Rector et al.	

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	50	EP 0 786820	07/30/1997			X
	51	WO 99 39373	08/05/1999			X
	52	WO 02/47183	06/13/2002			X
	53	EP 1 102016 (file page only)	05/20/2004			
	54	EP 0 628662				
	55	EP 0 442123				
	56	WO 01 17041	03/08/2001	E. Ink Corp.		X

Examiner Signature	/Anatoly Vortman/	Date Considered	03/03/2008
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	Not assigned 10/524646
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First Named Inventor	Walter Fix
Group Art Unit	Not assigned 2835
Examiner Name	Not assigned A. Vortman
Attorney Docket Number	411000-127

Sheet

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	57	US-2004/0211329	10/00/2004	Funahata et al.	
	58	US-2004/0013982	01/00/2004	Jacobson et al.	
	59	US-2003/0175427	09/00/2003	Loo et al.	
	60	US-6,517,995	02/00/2003	Jacobsen et al.	
	61	US-6,322,736	11/00/2001	Bao et al.	
	62	5,546,889	08/20/1996	Wakita et al.	

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	63	EP 0962984	12/08/99			X
	64	WO 02 19443	03/07/02			X
	65	WO 00 79617	12/28/04			X
	66	WO 99 10939	03/04/99			X
	67	DE 400 43204	04/04/2000			
	68	EP 0 511807	11/04/1992			X
	69	EP 0 978715	02/18/2000			
	70	EP 1 048 912	11/02/2000			
	71	DE 4243632	06/06/94			
	72	EP 0716458	06/12/1996			X
	73	WO 99 21233	04/29/1999			X
	74	WO 01 15233	03/01/2001			X

Examiner Signature

/Anatoly Vortman/

Date Considered

03/03/2008

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	Not assigned 10/524,646
		Filing Date	Herewith 09/02/05
		First Named Inventor	Walter Fix
		Group Art Unit	Not assigned 2835
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	75	US-5,652,645	07/29/1997	Jain	
	76	US-2002/02284	02/21/2002	Heeger et al.	
	77	US-			
	78	US-			
	79	US-			
	80	US-			

FOREIGN PATENT DOCUMENTS

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	81	WO 98/40930	09/17/98			X
	82	DE 19935737	01/23/01			
	83	FR 2760990	11/03/2000			
	84	WO 01 47045	06/28/2001			X
	85	WO 94/17556	08/04/1994			X
	86	WO 99/07189	02/11/1999			X
	87	WO 97/18944	05/29/1997			X
	88	EP 0685985	12/06/1995			X
	89	WO 00/36666	06/22/2000			X
	90	DE 100 42394 (file page)	09/20/2001			
	91	DE 100 46 860	11/18/00			
	92	WO 02/065557	08/22/2002			X
	93	DE 100 42397 (file page)	06/27/2002			
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Sheet 6 12

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		US-			
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		US-			
		US-			

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	94	JP 05259434	10/05/1993			X
	95	WO 99/10829 (title page only)	03/04/1999			X
	96	DE 199 95 527	02/03/2001			
	97	DE 199 97 202	03/01/2001			
	98	WO 01/27998 (title page only)	04/19/2001			X
	99	JP 05152560 (abstract)	06/18/1993			X
	100	DE 10064207 (title page only)	06/27/2002			
	101	EP 1234090 (title page only)	07/24/2002			
	102	JP 362065477A abstract	03/24/1987	Toshiba Corp.		X
	103	JP 08197788 abstract	08/06/1996	Hitachi Koki Co.		X
	104	DE 10854703	05/04/2000	Inc. fur Halbleitersysteme		
	105					

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		Group Art Unit	Not assigned 2835	
		Examiner Name	Not assigned- A. Vortman	
Sheet	7	12	Attorney Docket Number	411000-127

NON PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	106	GARNIER F et al.; "Vertical Devices Architecture By Molding Of Organic-Based Thin Film Transistor", Applied Physics Letters, American Institute Of Physics. XP000784120, Issn: 0003-6951 abblidung 2	X
	107	COLLET J. et al.; "LOW VOLTAGE, 30 NM CHANNEL LENGTH, ORGANIC TRANSISTORS WITH A SELF-ASSEMBLED MONOLAYER AS GATE INSULATING FILMS.", APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, Bd 76, Nr. 14, 3. april 2000 (2000-04-03), Seiten 1941-1943, XP000950589, ISSN:0003-6951, das ganze Dokument	X
	108	HWANG J D et al.; "A Vertical Submicron Sic thin film transistor", Solid State Electronics, Elsevier Science Publishers, Barking, GB, Bd. 38, NR. 2, 1. February 1995 (1995-02-01), Seiten 275-278, XP004014040, ISSN:0038-1101, Abblidung 2	X
	109	ROGERS J A et al.; "Low-Voltage 0.1 Mum Organic Transistors and Complementary Inverter Circuits Fabricated with a Low-Cost Form of Near-Field Photolithography", Applied Physics Letters, American Institute of Physics. New York, US, Bd. 75, Nr. 7, 16. August 1999 (1999-08-16), Seiten 1010-1012, XP000934355, ISSN: 003-6951, das ganze Dokument	X
	110	"Short-Channel Field-Effect Transistor", IBM Technical Disclosure Bulletin, IBM Corp., New York, US, Bd. 32, Nr. 3A, 1.August 1989 (1989-08-01), Seiten 77-78, XP000049357, ISSN:0018-8689, das ganze Dokument	X
	111	REDECKER, M. et al.; "Mobility enhancement through homogeneous nematic alignment of a liquid-crystalline polyfluorene", 1999 American Institute of Physics, Applied Physics Letters, Vol. 74, number 10, pp. 1400-1402.	X
	112	ROGERS, J. A. et al.; "Printing Process Suitable for Reel-to-Reel Production of High-Performance Organic Transistors and Circuits", Advanced Materials, VCH, Verlagsgesellschaft, Weinheim, DE, Bd. 11, Nr. 9, 5. Juli 1999 (1999-07-05), Seiten 741-745, P000851834, ISSN: 0935-9648, das ganze Dokument	X
	113	MIYAMOTO, Shoichi et al.; "Effect of LDD Structure and Channel Poly-Si Thinning on a Gate-All-Around TFT (GAT) for SRAMs", IEEE Transactions on Electron Devices. Vol. 46, No. 8, August 1999	X
	114	KUMAR, Anish et al.; "Kink-Free Polycrystalline Silicon Double-Gate Elevated-Channel Thin-Film Transistors", IEEE Transactions on Electron Devices, Vol. 45, No. 12, December 1998	X
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Examiner Signature	/Anatoly Vortman/	Date Considered	03/03/2008
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Substitute for form 1449A/PTO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	Not assigned 10/524,646	
		Filing Date	Herewith 09/02/05	
		First Named Inventor	Walter Fix	
		Group Art Unit	Not assigned 2835	
		Examiner Name	Not assigned A. Vortman	
Sheet	8	12	Attorney Docket Number	411000-127

NON PATENT LITERATURE DOCUMENTS

Examiner Initial*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	116	ZANGARA, L.: "Metall Statt Halbleiter, Programmierung Von Embedded ROMs Ueber Die Metallisierungen", <i>Elektronik, Franzis Verlag GMBH, Munchen, DE, Bd. 47, Nr. 16, 4 August 1998 (1998-08-04), Seiten 52-55, XP000847917, ISSN: 0013-5658, Seite 52, rechtes Plate, Zeile 7-Seite 53, linke Spalte, Zeile 14; Abbildungen 1, 2</i>	
	117	HERGEL, H.: "Bild-Programmiertechnologien", <i>Elektronik, Franzis Verlag GMBH, Munchen, DE, Bd. 41, Nr. 5, 3. März 1992 (1992-03-03), Seiten 44-46, XP000293121, ISSN: 0013-5658, Abbildungen 1-3.</i>	
	118	FORREST et al.: "The Dawn of Organic Electronics", <i>IEEE Spectrum</i> , August 2000 (2000-08), Seiten 29-34, XP002189000, IEEE Inc., New York, US ISSN:0018-9235, Seite 33, rechte Spalte, Zeile 58-Seite 34, linke Spalte, Zeile 24; Abbildung 5.	X
	119	PATENT ABSTRACTS OF JAPAN, Vol. 009, No. 274 (E-354), 31 Oktober 1985 (1985-10-31) & JP 60 117769 A (Fujitsu KK), 25 Juni 1985 (1985-06-25) Zusammenfassung	X
	120	ZIE VOOR TITEL BOEK, de 2e PAGINA, XP-002189001, PG 196-228.	X
	121	DRURY et al., "Low-Cost All-Polymer Integrated Circuits", <i>American Institute of Physics, Applied Physics Letters</i> , 1998, Vol. 73, No. 1, pp 108-110, July 6, 1998.	X
	122	KUHL MANN et al., "Terahytes in Plastikfolie", <i>Organische Massenspeicher vor der Serienproduktion</i>	
	123	GARNIER, F. et al., "All-Polymer Field-Effect Transistor Realized by Printing Techniques", <i>Science, American Association for the Advancement of Science</i> , US, vol 265, 16 September 1994, pp 1684-1686.	X
	124	ASSADI A. et al., "Field-Effect Mobility of Poly (3-Hexylthiophene) Dept. of Physics and Measurement Technology, Received 3 March 1988; accepted for Publication 17 May 1988	X

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	Not assigned 10/524,646
		Filing Date	Herewith 09/02/05
		First Named Inventor	Walter Fix
		Group Art Unit	Not assigned 2835
		Examiner Name	Not assigned A. Vortman
		Attorney Docket Number	411000-127
Sheet	9	12	

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	125	BAO, Z. et al., "High-Performance Plastic Transistors Fabricated by Printing Techniques", Chem. Mater. Vol. 9, No. 6, 1997, pp 1299-1301.	X
	126	HEBNER, T.R. et al., "Ink-jet printing of doped polymers for organic light emitting devices", American Institute of Physics, Applied Physics Letters, Vol. 72, no. 5, February 2, 1998, pages 519-521.	X
	127	ANGELOPOULOS M et al, "In-Situ Radiation Induced Doping", Mol. Cryst. Liq. Cryst. 1990, vol. 189, pp. 221-225.	X
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	129	ROMAN et al., "POLYMER DIODES WITH HIGH RECTIFICATION", Applied Physics Letters, Vol. 75, No. 21, November 22, 1999	X
	130	PATENT ABSTRACTS OF JAPAN, Vol. 010, No. 137, May 21, 1986 (JP 361001060A)	X
	131	SCHOEBEL, "Frequency Conversion with Organic-On-Inorganic Heterostructured Diodes", Extended Abstracts of the International Conference on Solid State Devices and Materials, September 1, 1997	X
	132	BRAUN D., et al, "Visible light emission from semiconducting polymer diodes", American Institute of Physics, Applied Physics Letters 58, May 6, 1991, pages 1982 - 1984.	X
	133	YU, G. et al., "Dual-function semiconducting polymer devices: Light-emitting and photodetecting diodes", American Institute of Physics, Applied Physics Letter 64, March 21, 1994, pages 1540 -1542.	X
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Examiner Signature	/Anatoly Vortman/	Date Considered	03/03/2008
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		First Named Inventor	Walter Fix
		Group Art Unit	Not Assigned 2835
		Examiner Name	Not Assigned A. Vortman
		Attorney Docket Number	411000-127
10		11	

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	136	GARNIER et al., "Conjugated Polymers and Oligomers as Active Material For Electronic Devices", Synthetic Metals, Vol. 28, 1989	X
	137	GELINCK, G.H. et al., "High-Performance All-Polymer Integrated Circuits", Applied Physics Letters, v. 77, 2000, pp. 1487-1489.	X
	138	ZHENG, Xiang-Yang et al., "Electrochemical Patterning of the Surface of Insulators with Electrically Conductive Polymers", J. Electrochem. Soc., v. 142, 1995, pp L226-L227.	X
	139	LIDZEY, D. G. et al., "Photoprocessed and Micropatterned Conjugated Polymer LEDs", Synthetic Metals, V. 82, 1996, pp. 141-148	X
	140	KOBEL W. et al., "Generation of Micropatterns in Poly (3-Methyl-Thiophene) Films Using Microlithography: A First Step in the Design of an All-Organic Thin-Film Transistor" Synthetic Metals, V. 22, 1988, pp. 265-271.	X
	141	ROST, Henning et al., "All-Polymer Organic Field Effect Transistors", Proc. Mat. Week, CD, 2001, pp. 1-6	X
	142	MANUELLI, Alessandro et al., "Applicability of Coating Techniques for the Production of Organic Field Effect Transistors", IEEE Polytronic 2002 Conference, 2002, pp. 201-204.	X
	143	ULLMAN, A. et al., "High Performance Organic Field-Effect Transistors and Integrated Inverters", Mat. Res. Soc. Symp. Proc., v. 665, 2001, pp. 265-270.	X
	144	FIX, W. et al., "Fast Polymer Integrated Circuits Based on a Polyfluorene Derivative", ESSDERC 2002, 2002, pp. 527-529.	X
	145	KNOBLOCH, A. et al., "Printed Polymer Transistors", Proc. Polytronic, v. 84, 2001, pp. 84-89	X
	146	FICKER, J. et al., "Dynamic and Lifetime Measurements of Polymer OFETs and Integrated Plastic Circuits, " Proc. of SPIE, v. 466, 2001, pp. 95-102	X
	147	PATENT ABSTRACTS OF JAPAN, vol 043, no. 444 (E-828), 5 October 1989 (1989/10/05) & JP 01 160042 A (Hitachi Ltd), 5 July 1989	

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#248027

Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	Not assigned 10/524,646
		Filing Date	Herewith 09/02/05
		First Named Inventor	Walter Fix
		Group Art Unit	Not assigned 2835
		Examiner Name	Not assigned A. Vortman
		Attorney Docket Number	411000-127
Sheet	11		12

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	148	CRONE, B. ET AL., "Large-scale complementary Integrated circuits based on Organic transistors", Nature, Vol. 403, Feb. 3, 2000, PP. 521 -	X
	149	FIX, W., et al., "Fast polymer integrated circuits", American Institute of Physics, Applied Physics Letters, Vol. 81, No. 89, August 2002, pp. 1735-1737.	X
	150	DODABALAPUR, A. et al., "Organic smart pixels", American Institute of Physics, Applied Physics Letters, Vol. 73, No. 2, July 13, 1998, pp. 142 - 144.	X
	151	HALLS, J.J. M., et al., "Efficient photodiodes from interpenetrating polymer networks", Nature, Vol. 376, August 10, 1995, pp. 498 - 500.	X
	152	BROWN, A.R. et al., "Field-effect transistors made from solution-processed organic semiconductors", Elsevier Science, S.A., Synthetic Metals 88 (1997) pp. 37-55	X
	153	BROWN, A.R., "Logic Gates Made from Polymer Transistors and Their Use in Ring Oscillators", Science, Vol. 270, November 10, 1995, pp 972 - 974	X
	154	KLAUK, H. et al., "Pentacene Thin Film Transistors and Inverter Circuits", 1997 International Electron Devices Meeting Technical Digest, pages 539-542, December 1997	X
	155	KLAUK, H. et al., "Fast Organic Thin Film Transistor Circuits", IEEE Electron Device Letters, Vol. 20, no. 6, pages 289-291	X
	156	BAO, Z. et al., "Organic and Polymeric Materials for the Fabrications of Thin Film Field-Effect Transistors", paper presented at the meeting of American Chemical Society, Division of Polymer Chemistry, XX, XX, Bd. 39, Nr. 1, 29 Marz 1998 (1998-03-29), P001032497, ISSN: 0032-3934 das ganze Dokument	X
	157	SCHROEDNER M. ET AL., "Plastic electronics based on Semiconducting Polymers", First International IEEE Conference on Polymers and Adhesives in Microelectronics and Photonics, Incorporating Poly. Pap. A	
		Adhesives in Electronics. Proceedings (Cat. No. 01TH8592), First International IEEE Conference on Polymers and Adhesives in Micr. Seitenn 91 - 94.	

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Sheet	12	12
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Application Number	Not assigned 10/524,646
Filing Date	Herewith 09/02/05
First Named Inventor	Walter Fix
Group Art Unit	Not assigned 2835
Examiner Name	Not assigned A.Vortman
Attorney Docket Number	411000-127

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Examiner Signature	/Anatoly Vortman/	Date Considered	03/03/2008
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